IN THE CLAIMS

Suba3/vi.

- A pedicle screw assembly comprising/
- a screw having a head with a convex portion;
- a receiver receiving the head and an elongated

member; and

the receiver having a concave portion, the concave portion having a radius of curvature which is less than a radius of curvature of the convex portion of the head whereby to create an interference fit between the convex portion of the head and the concave portion of the receiver.

- A pedicle screw assembly according to claim 1 and further comprising a nut on the receiver which compresses the convex portion of the head into the concave portion of the receiver.
- Wherein the receiver comprises a U-shaped portion for receiving the elongated member.
- 4. A pedicle screw assembly according to claim 2 wherein the concave portion of the receiver is formed of titanium.

25

us. A pedicle screw assembly according to claim 1 wherein each of the concave portion and convex portion have a spherical shape.

30

A pedicle screw assembly according to claim 1 wherein the screw comprises an elongated shank having bone threads thereon and the head located at one end thereof;

5

wherein the receiver comprises a body having an aperture therethrough for receiving the shank and having the concave portion located at the aperture;

wherein the receiver further comprises a channel therethrough opposite the aperture, the channel receiving the elongate member.

- 7. A pedicle screw according to claim 6 and further comprising a compression member between the elongate member and the head; the head having a second convex portion facing the compression member and the compression member having a second concave portion facing the head, the second concave portion having a radius of curvature less than a radius of curvature of the second convex portion whereby to create an interference fit between the head and the pressure member.
- 8. A pedicle screw according to claim 1 wherein the radius of curvature of the concave portion is about 0.05 mm smaller than the radius of curvature of the convex portion.